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MEMORANDUM

DATE: April 30, 1992

SUBJECT: Review of the Revised Remedial Investigation/ Feasibility Study Sampling and Analysis Plan for the McIntosh Plant Site, Olin Corporation, McIntosh, Alabama

FROM: Julie W. Keller
Toxicologist

TO: Elmer Akin
Health Assessment Officer

REFERENCE: TID 04-9204-085
ESAT-4R-5033
Cheryl Smith, RPM

Per your request, I have reviewed the Revised Remedial Investigation/Feasibility Study Sampling and Analysis Plan for the McIntosh Plant Site of Olin Corporation in McIntosh, Alabama. I have the following comments and concerns in addition to those stated in the accompanying memorandum "Review of the Preliminary Site Characterization Summary for the McIntosh Plant Site, Olin Corporation, McIntosh, Alabama."

The sampling objective for OU-2 will not be achieved with the sampling proposed on Figure 16. Surface water and sediment sampling should be extended into the Tombigbee River to define the horizontal extent of contaminantion.

The last sentence of paragraph 2, Section 1.0, is poorly constructed and should be edited.

Analysis of samples collected in the lime ponds (Section 4.1.2) should be full scan TCL/TAL as described in Section 4.1.1.

One soil boring should be completed in each of the two landfills (section 4.1.3). Analysis should be full scan TCL/TAL as described in Section 4.1.1.

Composite samples collected at the Old Plant Landfill Drainage Ditch (Section 4.1.4) should separate surface soil (0-1 foot bls) and subsurface soil (greater than 1 foot bls).

Section 4.1.5 should include the analysis parameters for the groundwater samples.

Analysis of samples collected at the Mercury Cell Plant (Section 4.1.6) should be full scan TCL/TAL as described in Section 4.1.1.

Analysis of the composite sample collected at the Well Sand Residue Area (Section 4.1.7) should be full scan TCL/TAL as described in Section 4.1.1.

Analysis of the samples from the Strong Brine Pond (Section 4.1.8) should be full scan TCL/TAL as described in Section 4.1.1.

A review of Table 5 indicates that the following compounds should be added to the proposed list of analytical parameters (page 43) since one or more samples exceeded the Safe Drinking Water Act Maximum Contaminant Level (MCL): Cadmium, Nickel, Selenium, Dibromochloropropane, Methylene chloride, and di-n-butyl phthalate.

Analysis of samples collected in the basin (Section 4.2) should include TCL pesticides based on previous sampling results regardless of the origin of the contamination.

The legend on Figure 8 is confusing. The difference between "Sediment Grab TAL Mercury" and "Sediment Grab CLP Result Mercury" is unclear. Should CLP be replaced with TCLP?

If I can be of further assistance or if you have any questions please contact me at x1586.